PROJECT DEVELOPMENT PHASE

SPRINT-4

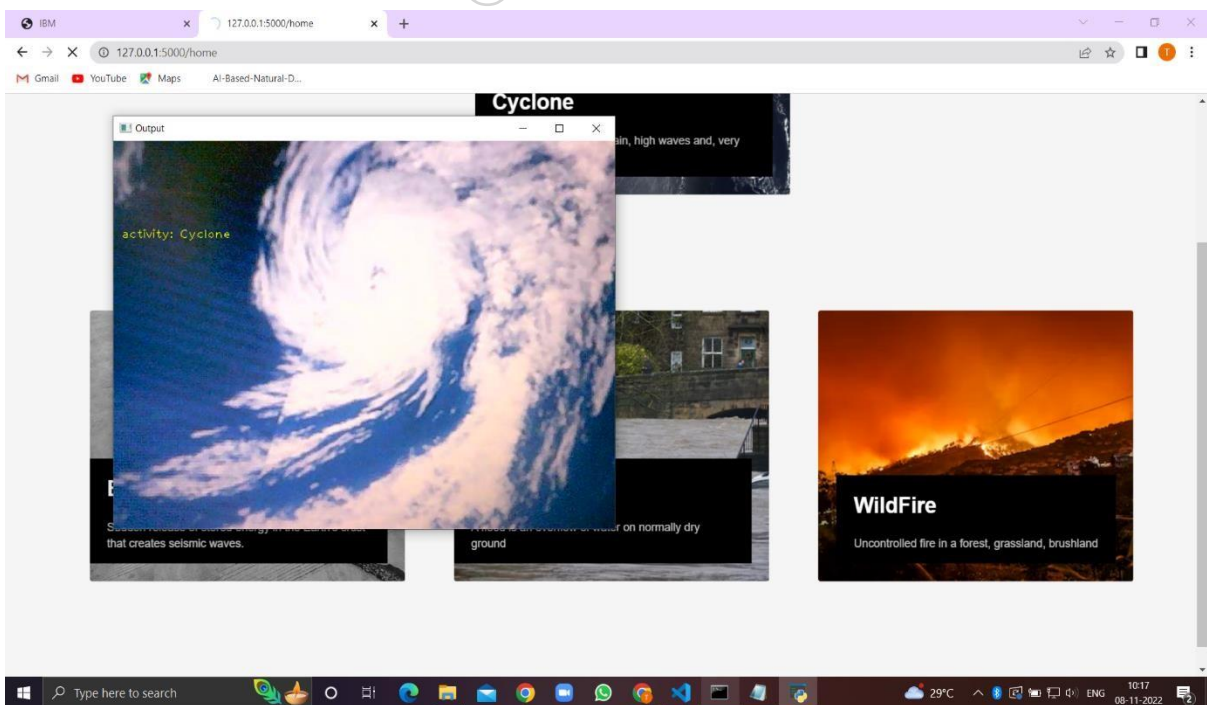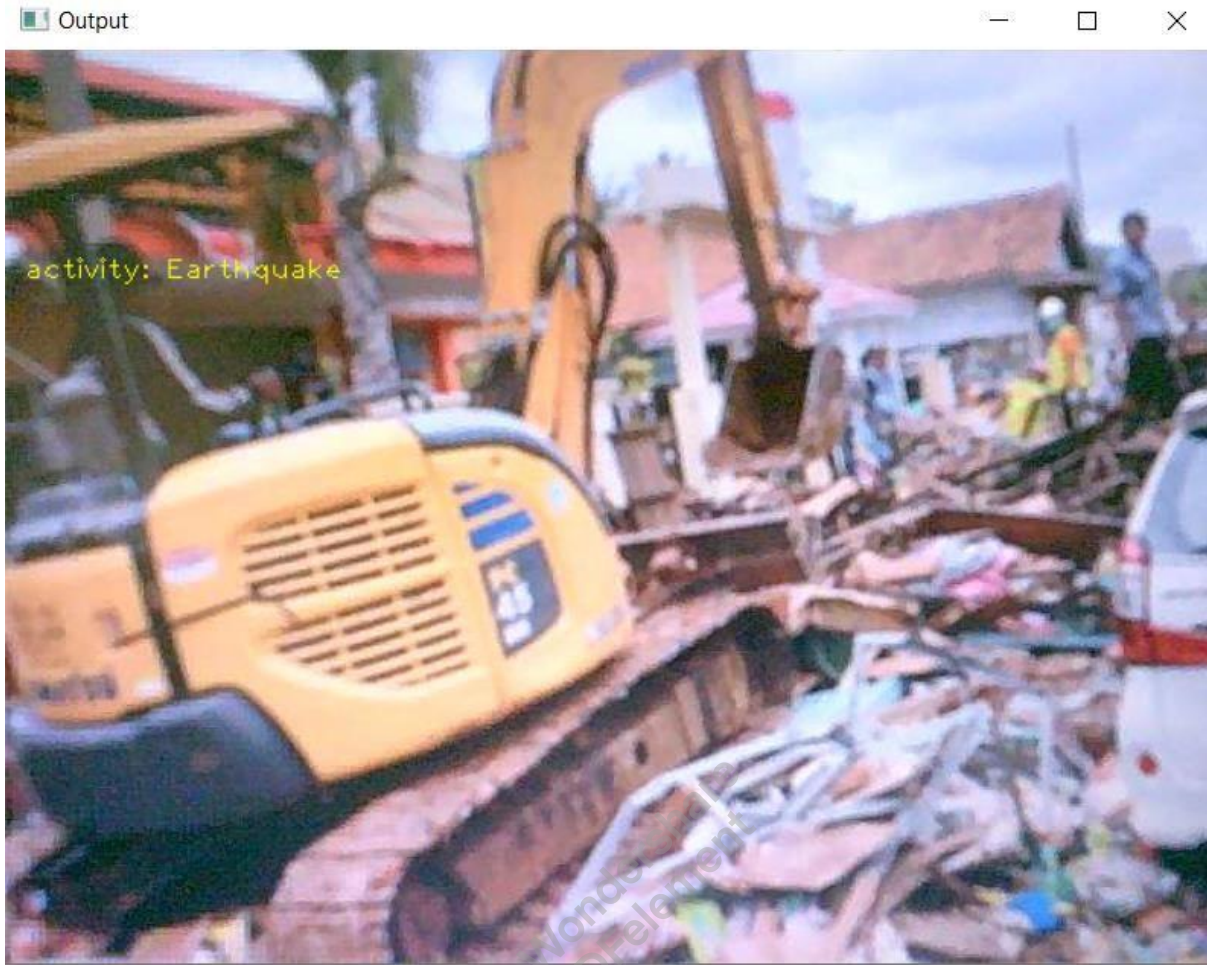| Date	07 November 2022
Team ID	PNT2022TMID48971
Project Name	Natural Disaster Intensity Analysis and Classification using Artificial Intelligence

INTEGRATE THE WEB APP WITH AI MODEL:

After creating the Model, the Model should be integrated with the web app using the Flask application. The coding part is named as app.py and it will be running in the localhost through the generated link. By navigating the localhost the webpage will be visible.

```python
73          output = frame.copy()
74          #print("apple")
75          frame = cv2.cvtColor(frame, cv2.COLOR_BGR2RGB)
76          frame = cv2.resize(frame, (64, 64))
77          #frame = frame.astype("float32")
78          x=np.expand_dims(frame, axis=0)
79          result = np.argmax(model.predict(x), axis=-1)
80          index=['Cyclone','Earthquake','Flood','Wildfire']
81          result=str(index[result[0]])
82          #print(result)
83          #result=result.tolist()
84
85          cv2.putText(output, "activity: {}".format(result), (10, 120), cv2.FONT_HERSHEY_PLAIN,
86                  1, (0,255,255), 1)
87          #playaudio("Emergency it is a disaster")
88          cv2.imshow("Output", output)
89          key = cv2.waitKey(1) & 0xFF
90
91          # if the `q` key was pressed, break from the loop
92          if key == ord("q"):
93              break
94
95      # release the file pointers
96      print("[INFO] cleaning up...")
97      vs.release()
98      cv2.destroyAllWindows()
99      return render_template("upload.html")
90
91
92  if __name__ == '__main__':
93      app.run(debug=False,threaded=True)
94
```

Output

activity: Earthquake

Output

activity: Cyclone

Cyclone

...rain, high waves and, very

WildFire

Uncontrolled fire in a forest, grassland, brushland

REGISTER FOR IBM CLOUD:

Registering IBM Cloud for deploying the model through the Flask application. The IBM Cloud account is created for all the team members.

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